

Product datasheet for **MR209104**

Pigq (NM_011822) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigq (NM_011822) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigq
Synonyms:	Gpi1; Gpi1h; Gpi1p; Gpih
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209104 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCTCAAGTCTTCTTCCCCAGTGTGCTCGCAGACAGTGGCTGTTAGTGGGACGATGGG
 TTCCAGGACAGAGCAGTGTGATCCTGGCCGTGGTGCCTTTCCCTTCATCCCCATCCAAGTCAAGGA
 GCTCCTGGCCAGGTGCAGAAGGCCAGTCAAGTACCAGTGGCTGTGCTAGGGACCTGGTCCACCCTCAG
 CAGGAACCGCAGGAGAGCCTGGGAATTTCTGGAGGGCCTGGGCACCATCTTCTCCATGACCCCTGGT
 TGCAGCTCTGCCGGGAGAGGGTACCAGACTCTGGAGCTGCAAGGCCACTACCCGCAGATGTCTAACCC
 TCTGGACATGCACCCGAAGAGCAGTCTGCTCATCTTCTATGATCAGCGCAAGCTGCTGCTCTCTGG
 TTGCATCCGCCTCCAGTCTGCCTGCCAGATGGGAGACACCACAGCCAGCACCGGAGGCTAGCTG
 ACATCTTTGACACAGTGGCAGCAGCGAGGTGCTCTCCGAAATGACCAATTTGATGAGAGACCCGTACG
 CCTGAGCCACTGGCAATCAGAGGGAGTGGAGGCCAGCATACTTGTGGAGTTGGCAAAGCGGGCCTCTGGG
 CCTGTCTGCCTGTCTGGCTTCTGTGTCCCTGATCTCAGCAGCTAGTGCTTCCCGCTATGGAAGC
 TGTGGCCACTTTCCTTCATCAGAAGCAAGCTCTCCACTTGTGAGCAGCTCCATCACCCGGCTGAAGCACCT
 CTCTTTCATCTTACGACGGAGAAAGCCAGAATCCCATGCAGCTGATGAGGAAGGCCAACATGCTGGTT
 TCTGTGCTACTGGATGTGGCCCTTGGCTTGTGCTGCTCTTGGCTCCACAGCAATAACCGAATTGGAC
 AGCTGGCAATGCCCTGGTCCCTGTGGCTGATCGCGTGGCTGAGGAGCTCCAGCATCTGCTGCAGTGGCT
 GATGGGTGCTCCTGTGGCTCAAGATGAATCGGGCACTGGATCAGGTGCTAGGCCGCTTTTTCTGTAC
 CACATCCATCTGTGGATAAGCTATATCCACCTTATGTCCCCTTATTGAGCATATCTGTGGCATGTGG
 GACTCTCAGCCTGCCTTGGACTGACTGTTGCTCTGTCCATCTTTTCGGATATCATCGCCCTTCTCACCT
 CCACATCTATTGCTTCTATGTCTACGGTGCCAGGCTGTACTGCCTGAAGATCTATGGCCTTCTCTCTCTC
 TGGCGTCTGTTCCGGGGGAAGAAGTGAATGTTCTGCGCCAGCAGTGGATTCTTGTTCCTATGACCTTG
 ACCAGCTTTCATTGGGACCTTGTCTTCCACCCTCTGCTTCTTGTACTCCACCACCCTGCTGTACTA
 CCTGGTATTCACCCTGCTCCGGCTCCTGGTACTGTCAGGCTTAATCCATCTACTGTAGACCTC
 ATCAATCCCTGCCACTATACTCCCTTGGCCTTCGACTCTGCCGACCCTACAGGCTGGCAGCTGGTGTGA
 AGTTCCAGATTCTGAAAAGGAGGCAGGCAGCCCTCCGCTCCTGATGCAGATAAACCCCTGTCTTA
 TAACCATGTGATGCACATCTACCGTCTGCCTCGCTGTGGTCCATCCCAAGCACTCTGGGGTACCCTG
 TGCCGAAAGCTGGTCTTCGGAGAGCTCATCTACCCTGGAGGCAGAGAGGACAACAGGAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209104 protein sequence
 Red=Cloning site Green=Tags(s)

MVLKVFPTCCASADSGLLVGRWVPGQSSAVILAVVHFFPIPIQVKELLAQVQKASQVPVAVLGTWCHRQ
 QEPQESLGNFLEGLGTFISHPWLQLCRERGRWLWCKATYPQMSNPLDMHPPEEQVMLIFYDQRKLLLSW
 LHPPPVLPAQMGDTTASTGGLADIFDTVARSEVLFNRDQFDERPVRLSHWQSEGVEASILVELAKRASG
 PVCLLLASLLSLISAASACRLWKLWPLSFIRSKLSTCEQLHHRLKHLSFIFSTKAQNPMLMRKANMLV
 SVLLDVALGLLLLSWLHSNNRIGQLANALVPVADRVAEELQHLLQWLMGAPAGLKMNRALDQVLGRFFLY
 HIHLWISYIHLMSPFIEHILWHVGLSACLGLTVALSIFSDIIALLTFHIYCFYVYGARLYCLKIYGLSSL
 WRLFRGKKWNVLRQRVDSYDLQLFIGTLLFTILVFLPTTALYYLVFTLLRLLVITVQGLIHLLVDL
 INSLPLYSLGLRRCRYPYRLAAGVKFRVLEKEAGRPLRLMQINPLSYNHVMHIYRLPRCGCHPKHSWGTL
 CRKLVFGEIYPRQREDKQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_011822

ORF Size: 1746 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_011822.4](#)

RefSeq Size: 3115 bp

RefSeq ORF: 1746 bp

Locus ID: 14755

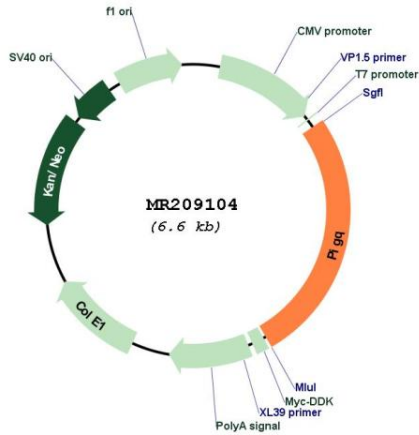
UniProt ID: [Q9QYT7](#)

Cytogenetics: 17 A3.3

MW: 66.3 kDa

Gene Summary: Part of the complex catalyzing the transfer of N-acetylglucosamine from UDP-N-acetylglucosamine to phosphatidylinositol, the first step of GPI biosynthesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209104